

INTERNATIONAL SEARCH REPORT

In tional Application No
PCT/NL2004/000538

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 F16B7/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F16B A44B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 32 48 611 A (MUELLER ALFRED;MUELLER HANS ADOLF) 12 July 1984 (1984-07-12) page 9, line 4 - page 12, line 24; figures	1-10
X	DE 199 62 001 A (WANDELT DIETER) 10 August 2000 (2000-08-10) column 1, line 41 - line 62; figures	1-6,8-10
A	US 3 818 550 A (CRESSWELL H ET AL) 25 June 1974 (1974-06-25) figures	1-4,9,10
A	DE 22 59 252 A (SCHAEFFER HOMBERG GMBH) 12 June 1974 (1974-06-12) figures 3,5	1-4,9,10



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

Z document member of the same patent family

Date of the actual completion of the international search

2 November 2004

Date of mailing of the international search report

10/11/2004

Name and mailing address of the ISA

European Patent Office; P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Martin, C

INTERNATIONAL SEARCH REPORT

Information on patent family members

In International Application No
PCT/NL2004/000538

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 3248611	A	12-07-1984	DE 3248611 A1	12-07-1984
DE 19962001	A	10-08-2000	DE 29901338 U1 DE 19962001 A1	06-05-1999 10-08-2000
US 3818550	A	25-06-1974	GB 1387584 A AR 202452 A1 AT 311710 B AU 4303472 A BE 784517 A1 CA 999209 A1 CH 553343 A DD 98722 A5 DE 2227944 A1 ES 403628 A1 FR 2141257 A5 HU 165018 B IL 39623 A IT 956951 B LU 65487 A1 NL 7207562 A RO 59488 A1 SE 378027 B SU 426380 A3 ZA 7203758 A	19-03-1975 13-06-1975 26-11-1973 13-12-1973 02-10-1972 02-11-1976 30-08-1974 05-07-1973 21-12-1972 16-12-1975 19-01-1973 28-06-1974 10-02-1975 10-10-1973 05-10-1972 12-12-1972 15-04-1976 11-08-1975 30-04-1974 30-05-1973
DE 2259252	A	12-06-1974	DE 2403406 A1 DE 2259252 A1	31-07-1975 12-06-1974

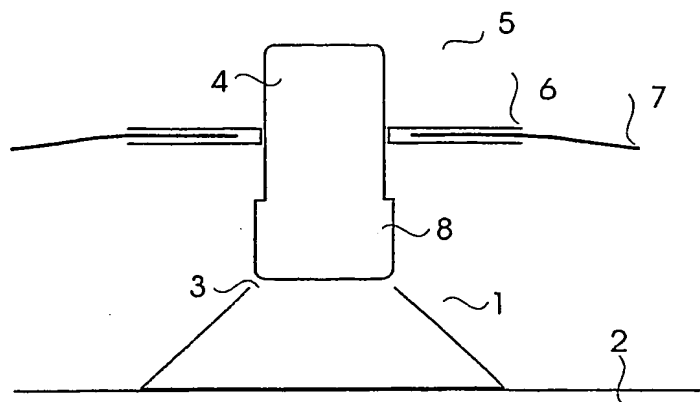


Fig. 1A

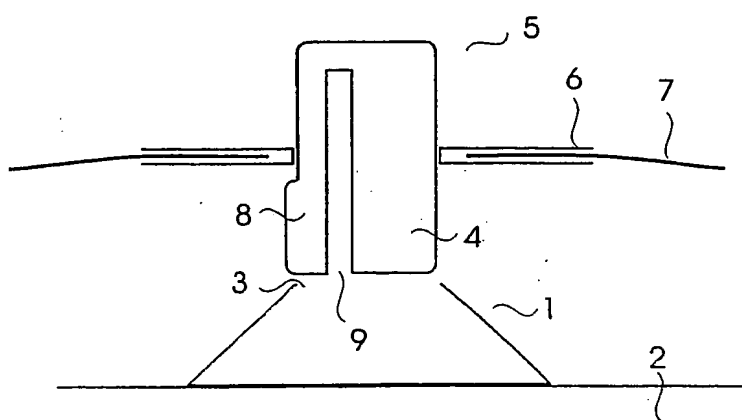


Fig. 1B

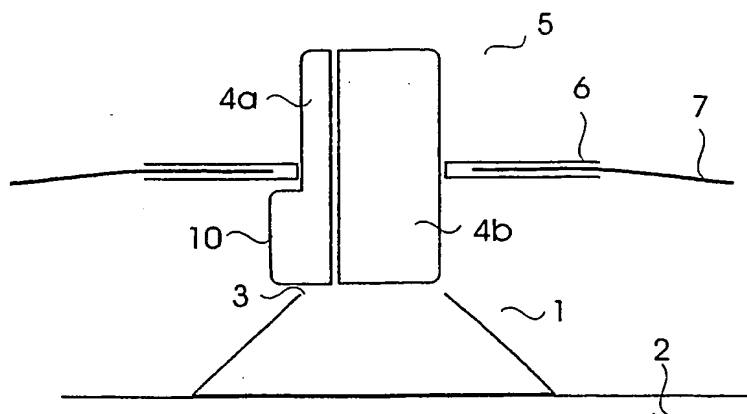


Fig. 1C

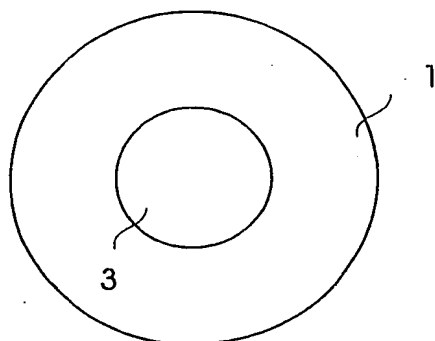


Fig. 2A

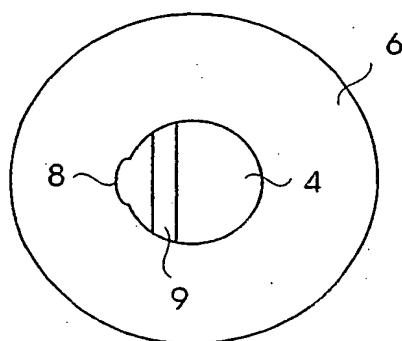


Fig. 2B

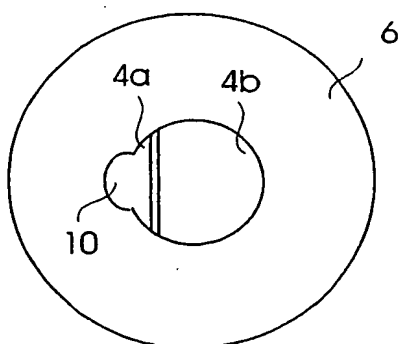


Fig. 2C

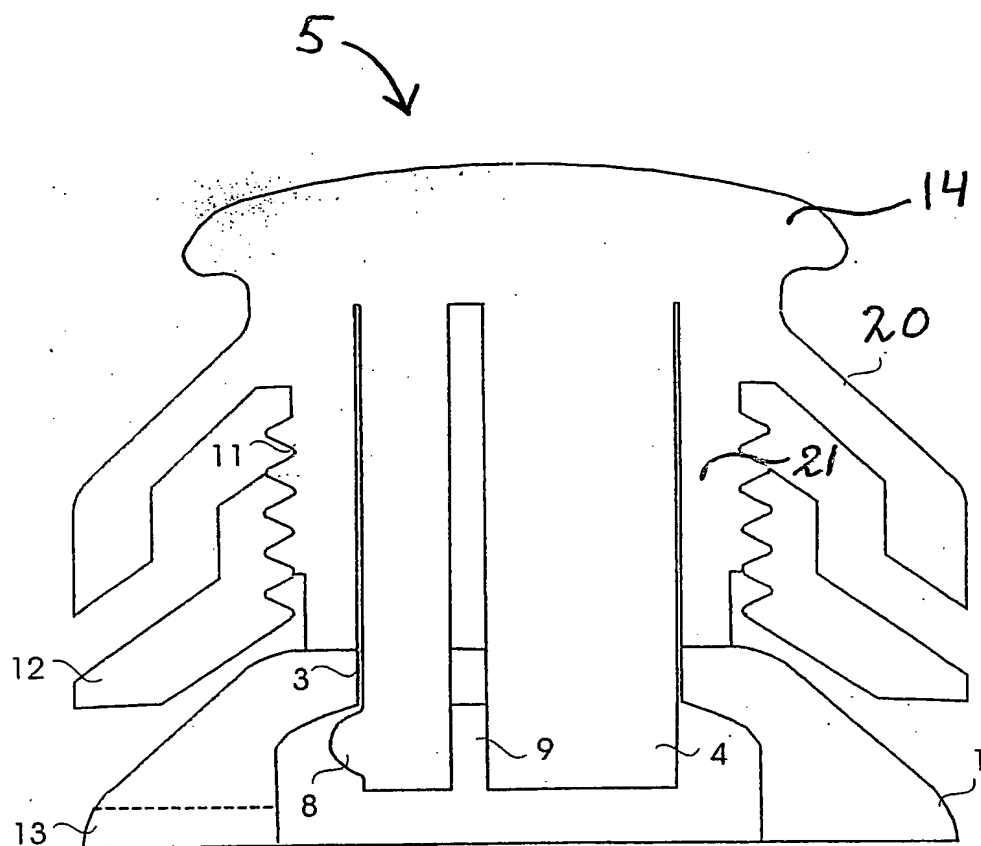


Fig. 3

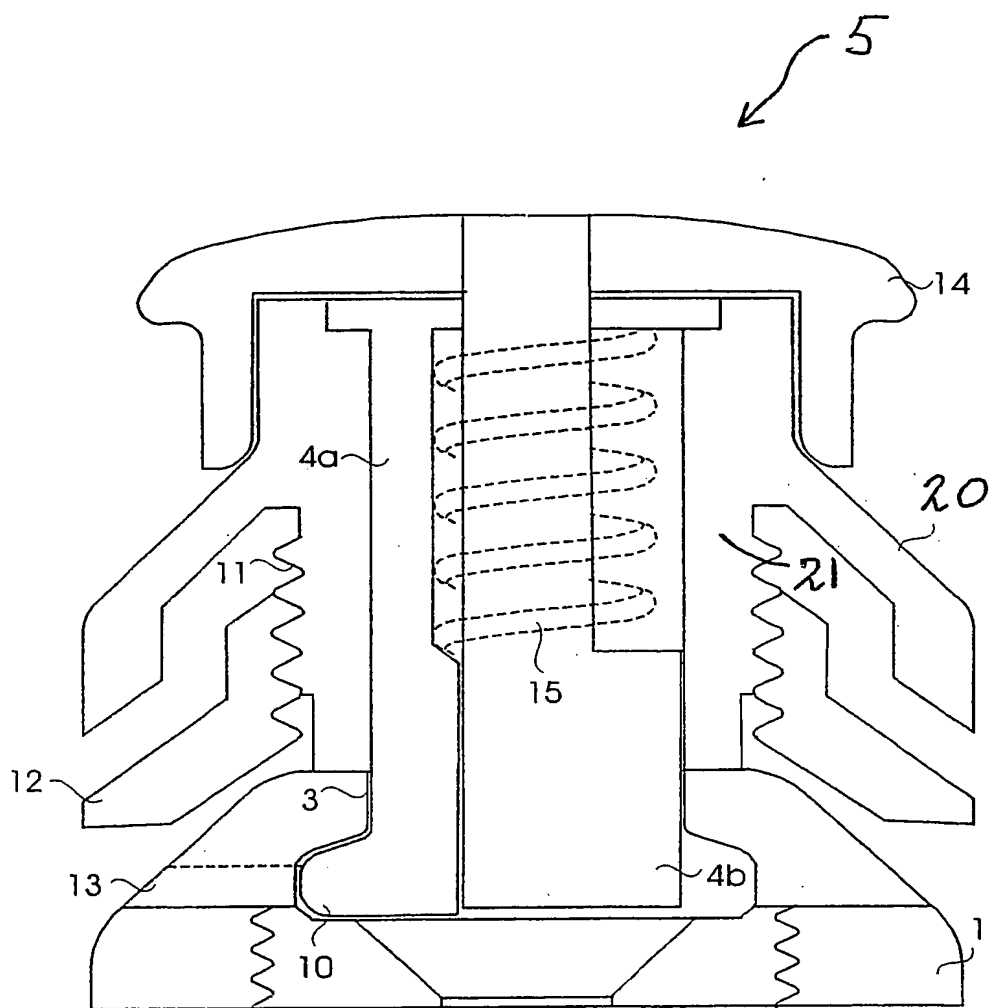


Fig. 4

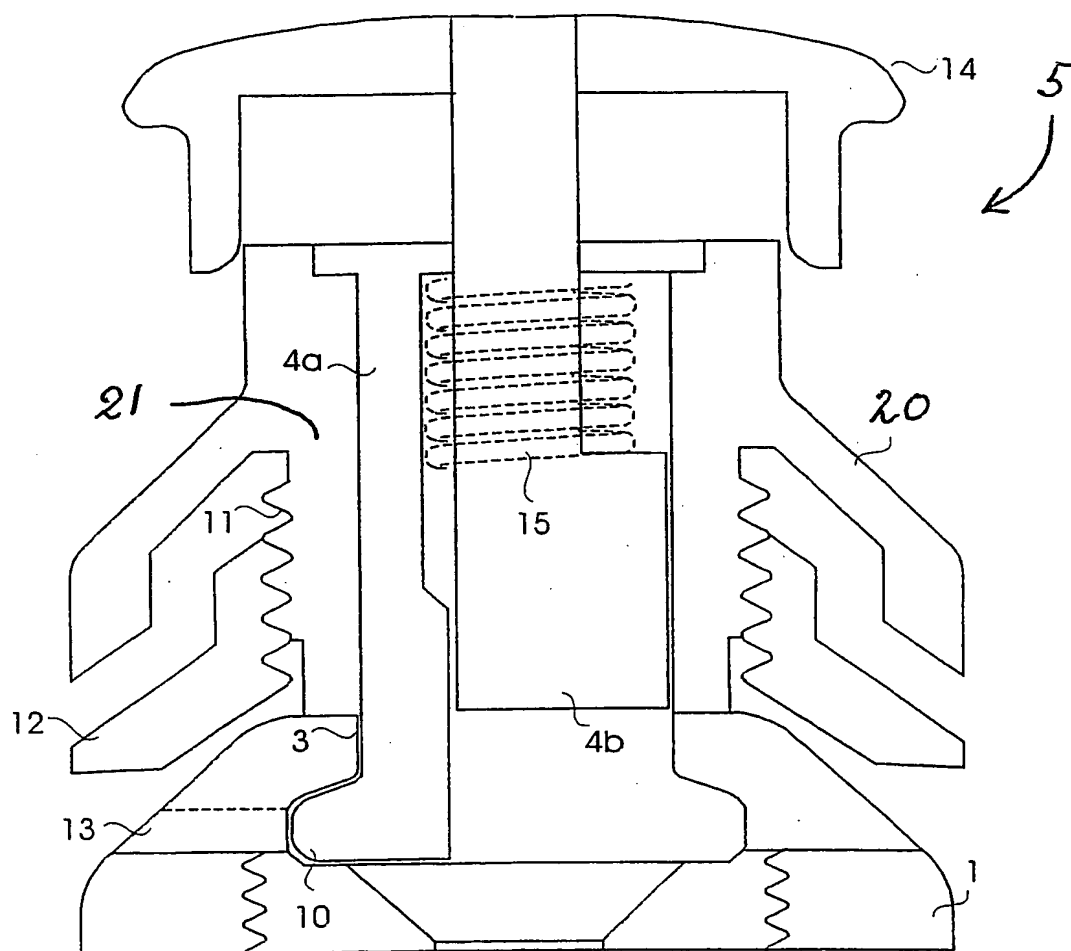


Fig. 5

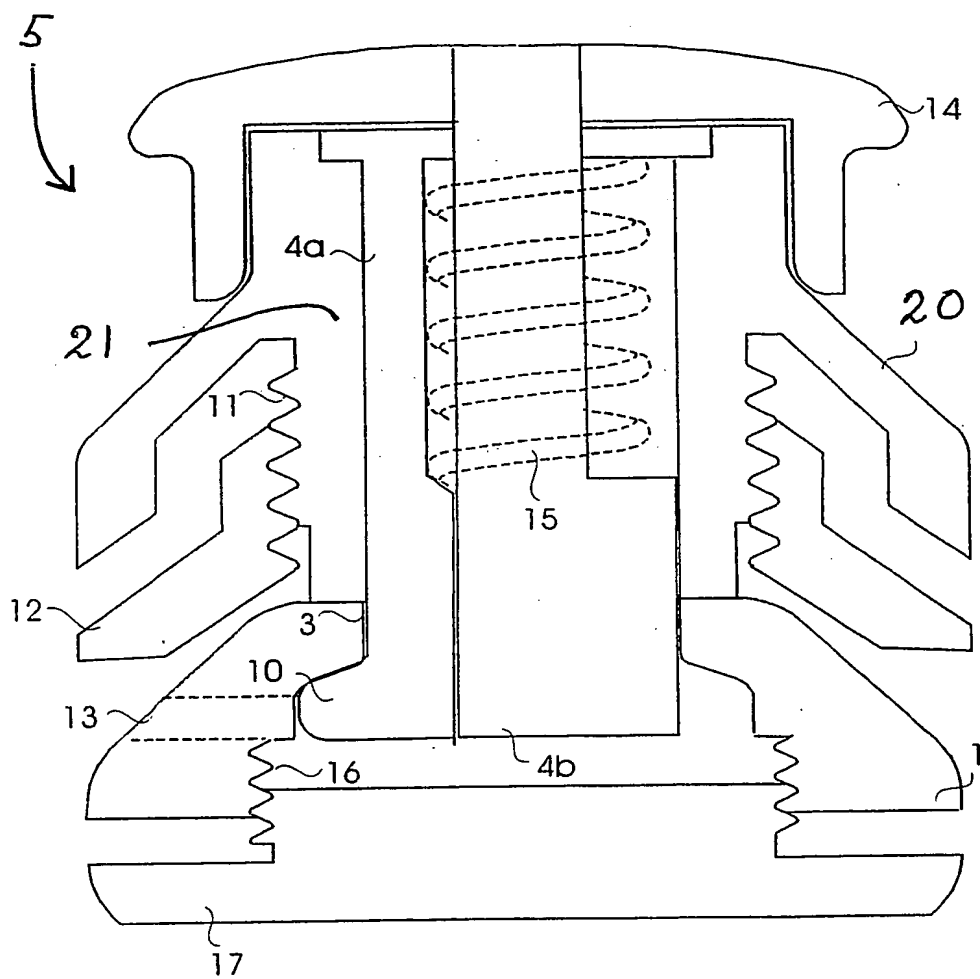


Fig. 6

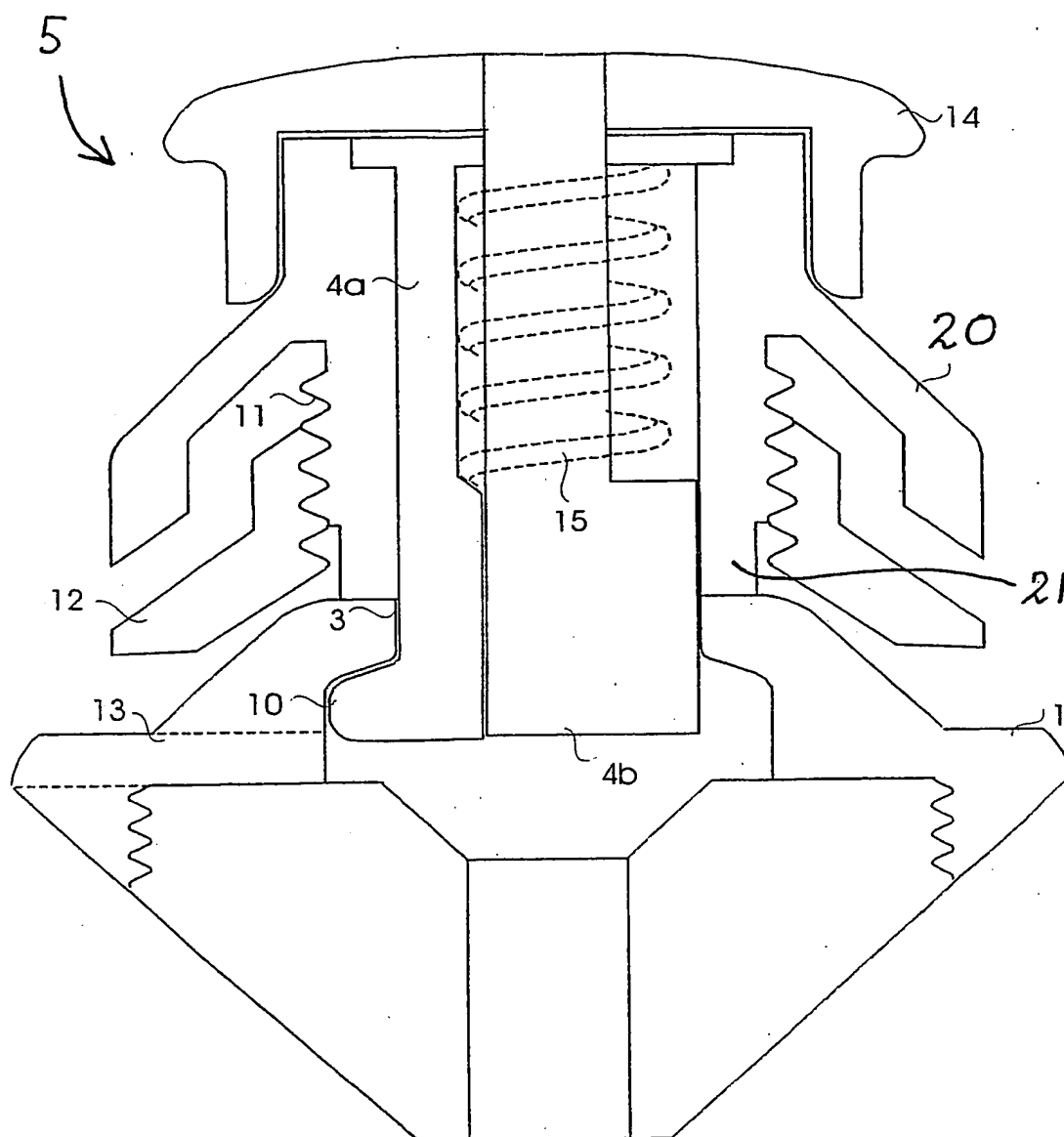


Fig. 7

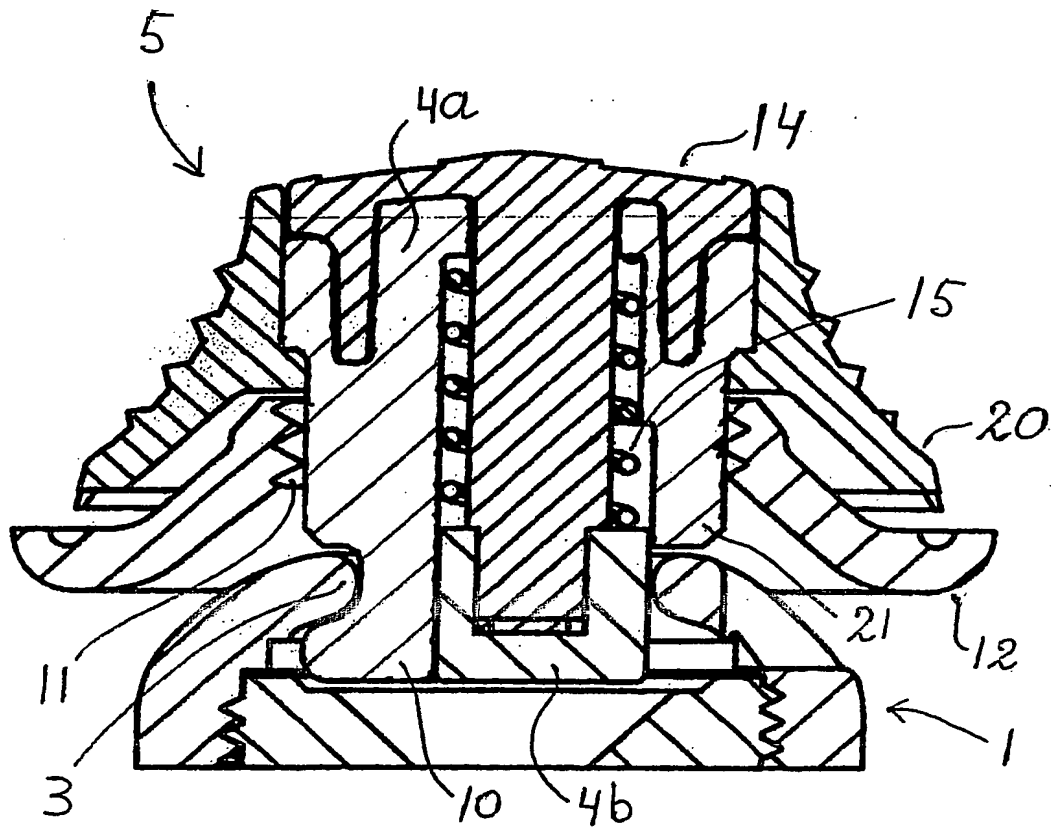


Fig 8

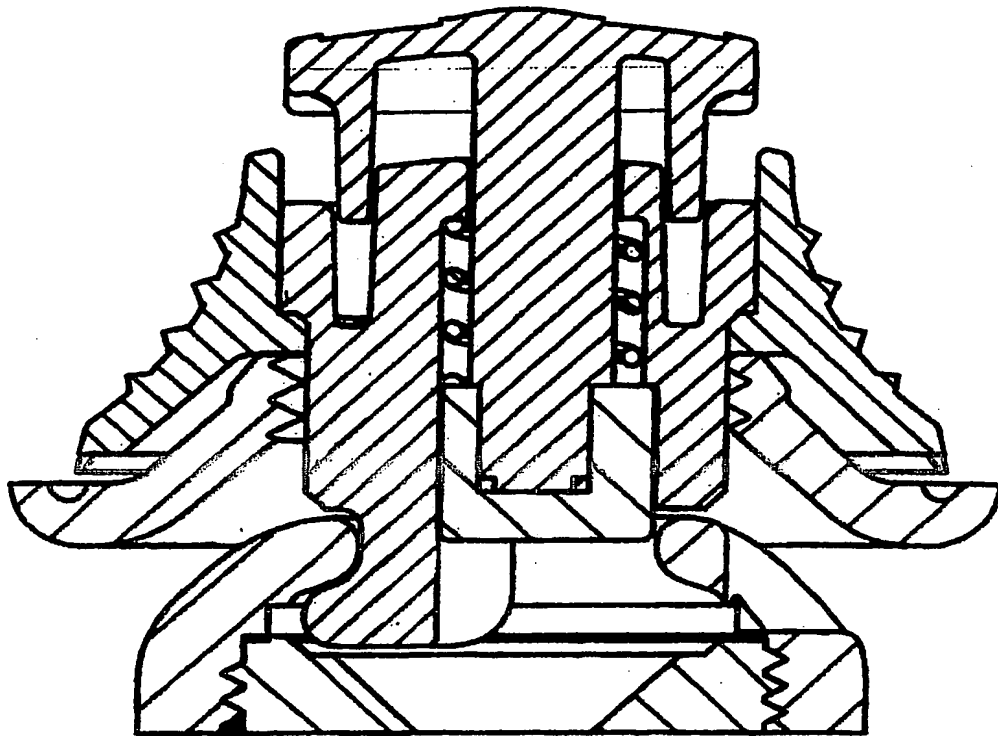


Fig 9

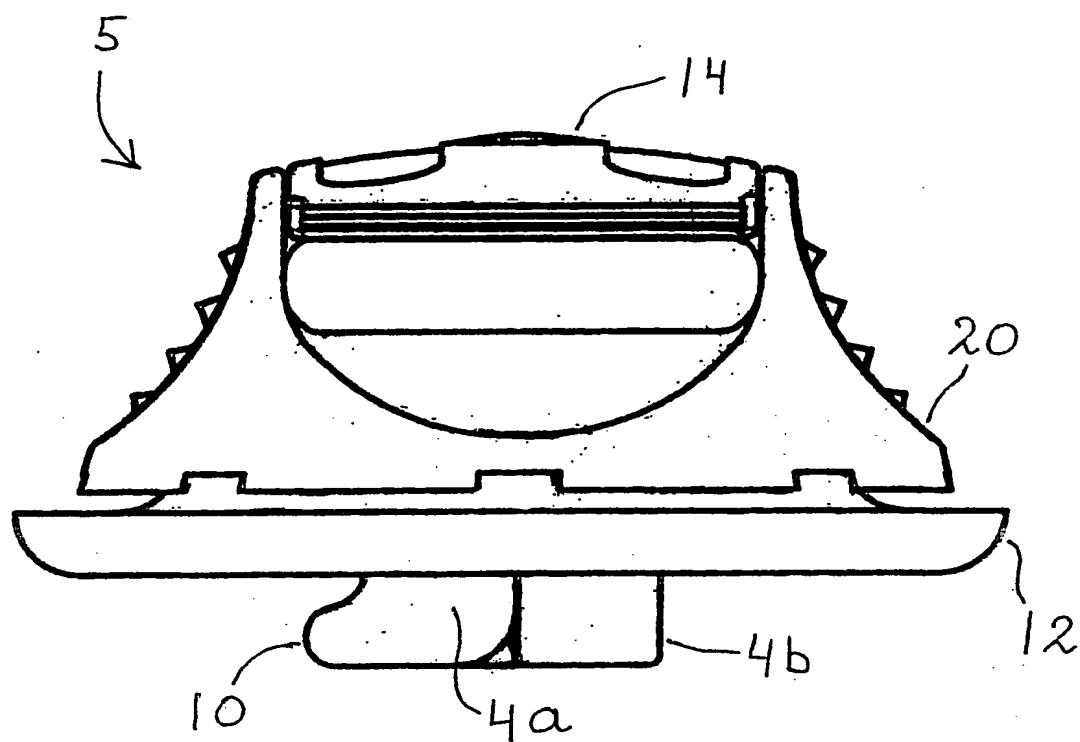


Fig 10

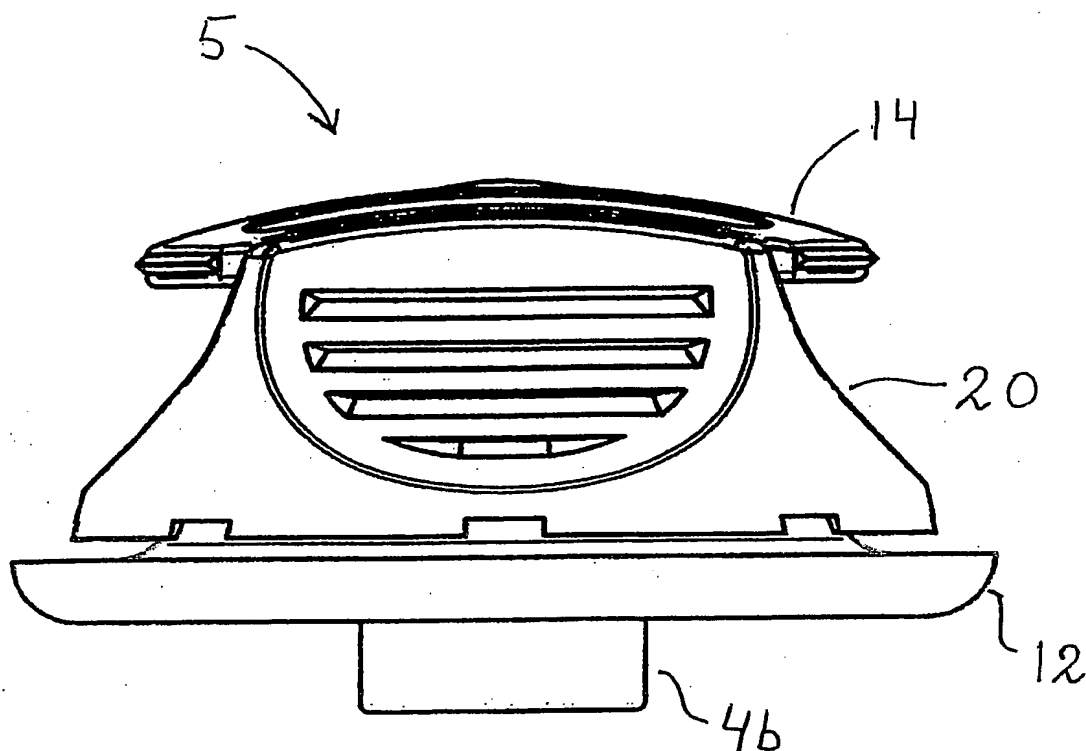


Fig 11

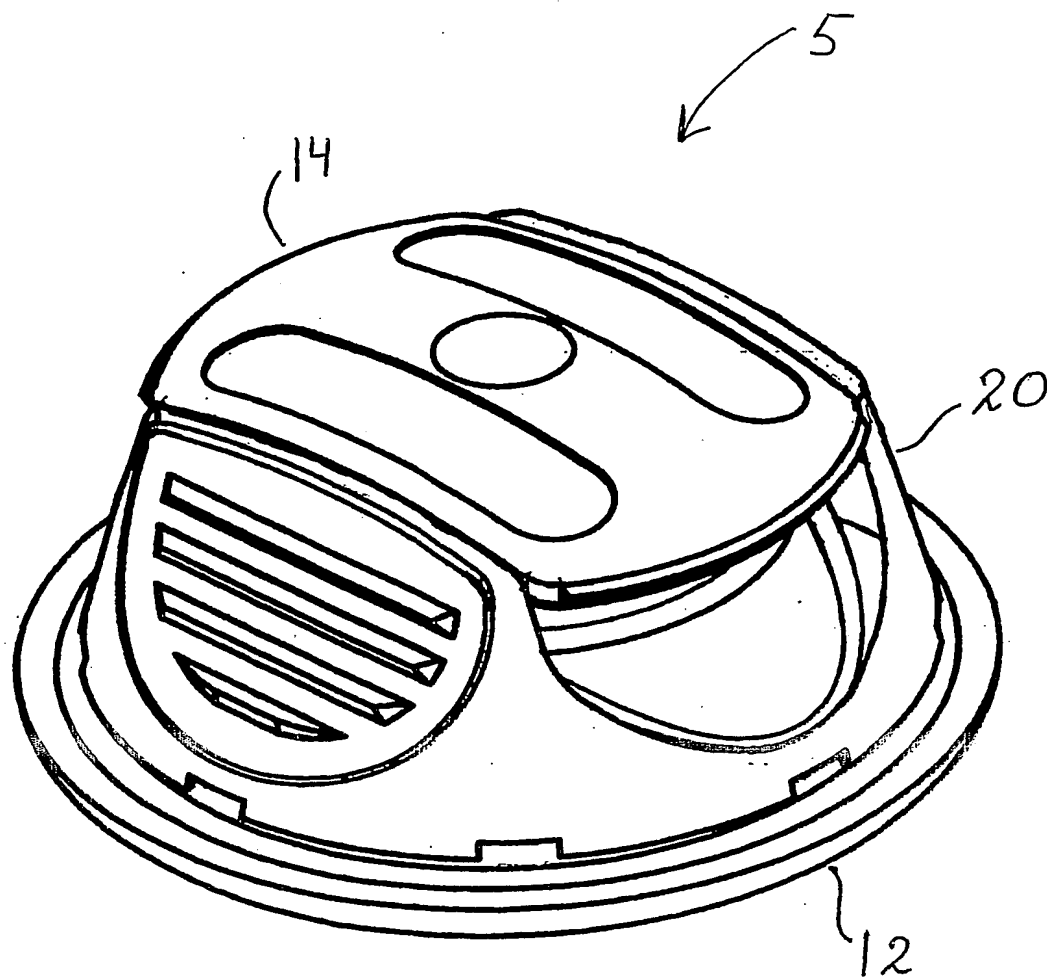


Fig 12

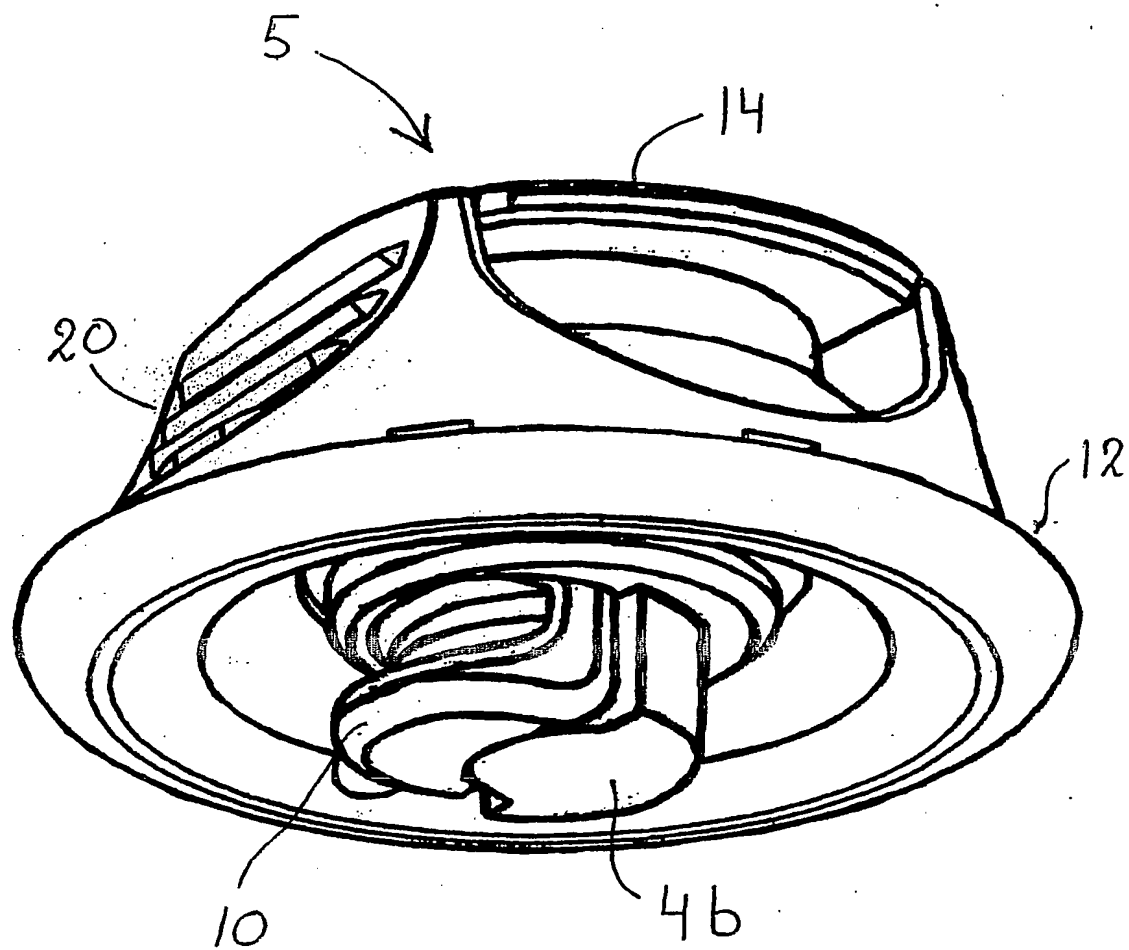


Fig 13